

Appl. No. : 10/808,639
Filed : March 24, 2004

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A flying vehicle assembly apparatus comprising:
a winged flying craft for flying generally along a first axis and one or more first biased pivot connections cooperating therewith;
a powered craft for traveling generally along a second axis generally coplanar with said first axis for propelling said flying craft;
one or more second biased pivot connections cooperating with a tether assembly;
and
a tether assembly comprising one or more first rigid struts having a first end pivotally secured to said one or more first biased pivot connections adjacent to said flying craft and a second end pivotally secured to one of said one or more second biased pivot connections, and one or more second rigid struts having a first end pivotally secured adjacent to said powered craft and a second end pivotally secured to a second biased pivot connections, whereby said first and second biased pivot connections urge said flying craft and said powered craft toward one another along said first and second axes, and whereby during flying operation[;] the powered craft is generally forward of said flying craft; **and**
wherein an underside of said flying craft is shaped to receive a portion of said powered craft in a nested position therewith; and wherein said first and second biased pivot connections are spring biased for urging said powered craft in nested position with said flying craft.
2. (Original) An apparatus of Claim 1 wherein said powered craft is controlled from said flying craft.
3. (Currently Amended) An apparatus of Claim 1 wherein said flying craft has a forward end and a wing extending on each side of said flying craft rearwardly of said forward end with a lift axis defined along said wings, and wherein said one or more first biased pivot connections are secured to said flying craft at a location forward of said lift axis.
4. (Original) An apparatus of Claim 2 wherein said flying craft has a forward end and a wing extending on each side of said craft rearwardly of said forward end with a lift axis defined along said wings, and wherein said one or more first biased pivot connections are secured to said flying craft at a location forward of said lift axis.
5. (Canceled)

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6. (Currently Amended) An apparatus of Claim 5-3 wherein the underside of said flying craft includes a recess for receiving said powered craft in said nested position.

7. (Canceled)

8. (Original) An apparatus of Claim 1 wherein said powered craft comprises a shaped hull for water travel and includes an engine for driving said powered craft through water and includes a controllable rudder for changing direction of water travel.

9. (Original) An apparatus of Claim 7 wherein said engine and said rudder are controlled from said flying craft.

10. (Original) An apparatus of Claim 1 wherein said tether assembly is positioned between a first position prior to operating said powered craft whereby said first and second rigid struts form a first angle with one another, and a second position during operation of said powered craft whereby said first and second rigid struts form a second angle with one another.

11. (Currently Amended) An apparatus of Claim 9-10 wherein said second angle is greater than said first angle.

12. (Original) An apparatus of Claim 10 wherein said first angle is less than about 45°C.

13. (Original) An apparatus of Claim 10 wherein said second angle is an obtuse angle.

14. (Original) An apparatus of Claim 11 wherein said second angle is an obtuse angle.

15. (Original) An apparatus of Claim 1 wherein said flying craft comprises a wing extending from each side thereof rearwardly from the center of said flying craft and whereby one or more first biased hinges are positioned forwardly from the center of said flying craft.

16. (Original) An apparatus of Claim 14 wherein the center of gravity of said flying craft is forward of said wings.

17. (New) A flying vehicle assembly apparatus comprising:

a winged flying craft for flying generally along a first axis and one or more first biased pivot connections cooperating therewith;

a powered craft for traveling generally along a second axis generally coplanar with said first axis for propelling said flying craft;

one or more second biased pivot connections cooperating with a tether assembly;

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a tether assembly comprising one or more first rigid struts having a first end pivotally secured to said one or more first biased pivot connections adjacent to said flying craft and a second end pivotally secured to one of said one or more second biased pivot connections, and one or more second rigid struts having a first end pivotally secured adjacent to said powered craft and a second end pivotally secured to a second biased pivot connections, whereby said first and second biased pivot connections urge said flying craft and said powered craft toward one another along said first and second axes, and whereby during flying operation, the powered craft is generally forward of said flying craft; and

wherein said tether assembly is positioned between a first position prior to operating said powered craft whereby said first and second rigid struts form a first angle with one another, and a second position during operation of said powered craft whereby said first and second rigid struts form a second angle with one another.

18. (New) An apparatus of Claim 17 wherein said powered craft is controlled from said flying craft.

19. (New) An apparatus of Claim 17 wherein said flying craft has a forward end and a wing extending on each side of said flying craft rearwardly of said forward end with a lift axis defined along said wings, and wherein said one or more first biased pivot connections are secured to said flying craft at a location forward of said lift axis.

20. (New) An apparatus of Claim 18 wherein said flying craft has a forward end and a wing extending on each side of said craft rearwardly of said forward end with a lift axis defined along said wings, and wherein said one or more first biased pivot connections are secured to said flying craft at a location forward of said lift axis.

21. (New) An apparatus of Claim 19 wherein an underside of said flying craft is shaped to receive a portion of said powered craft in a nested position therewith.

22. (New) An apparatus of Claim 21 wherein the underside of said flying craft includes a recess for receiving said powered craft in said nested position.

23. (New) An apparatus of Claim 22 wherein said first and second biased pivot connections are spring biased for urging said powered craft in nested position with said flying craft.

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24. (New) An apparatus of Claim 17 wherein said powered craft comprises a shaped hull for water travel and includes an engine for driving said powered craft through water and includes a controllable rudder for changing direction of water travel.

25. (New) An apparatus of Claim 24 wherein said engine and said rudder are controlled from said flying craft.

26. (New) An apparatus of Claim 17 wherein said second angle is greater than said first angle.

27. (New) An apparatus of Claim 17 wherein said first angle is less than about 45°C.

28. (New) An apparatus of Claim 17 wherein said second angle is an obtuse angle.

29. (New) An apparatus of Claim 26 wherein said second angle is an obtuse angle.

30. (New) An apparatus of Claim 17 wherein said flying craft comprises a wing extending from each side thereof rearwardly from the center of said flying craft and whereby one or more first biased hinges are positioned forwardly from the center of said flying craft.

31. (New) An apparatus of Claim 29 wherein the center of gravity of said flying craft is forward of said wings.